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3 NetShield: massive semantics-based vulnerability signature matching for high-speed networks [View details](#) [Email](#)

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Accuracy and speed are the two most important metrics for Network Intrusion Detection/Prevention Systems (NIDS/NIPs). Due to emerging polymorphic attacks and the fact that in many cases regular expressions (regexes) cannot capture the vulnerability ...

Keywords: deep packet inspection, intrusion detection, signature matching, vulnerability signature

Also published in: [August 2010 SIGCOMM Computer Communication Review Volume 40 Issue 4](#)

4 Semantics-aware trace analysis [View details](#) [Email](#)

Kevin J. Hoffman, Patrick Eugster, Suresh Jagannathan [View details](#)
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As computer systems continue to become more powerful and complex, so do programs. High-level abstractions introduced to deal with complexity in large programs, while simplifying human reasoning, can often obfuscate salient program properties gleaned ...

Keywords: automated debugging, debugging aids, semantic tracing, testing tools, trace views, tracing

Also published in: [May 2009 SIGPLAN Notices Volume 44 Issue 6](#)

5 Efficient Feature Selection via Analysis of Relevance and Redundancy [View details](#) [Email](#)

Le Yu, Huan Liu [View details](#)
December 2004 [The Journal of Machine Learning Research, Volume 5](#) [View details](#)
Publisher: JMLR.org
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Feature selection is applied to reduce the number of features in many applications where data has hundreds or thousands of features. Existing feature selection methods mainly focus on finding relevant features. In this paper, we show that feature relevance ...

6 New Techniques for Disambiguation in Natural Language and Their Application to Biological Text [View details](#) [Email](#)

Yao-Ching Lin, Shih-Wei Lin, John Shieh, Jason Tsai, Shih-Chuan Chen [View details](#)
December 2004 [The Journal of Machine Learning Research, Volume 5](#) [View details](#)
Publisher: JMLR.org
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Bibliometrics Downloads (6 Weeks): 0, Downloads (12 Months): 16, Downloads (Overall): 375, Citation Count: 4

We study the problems of disambiguation in natural language, focusing on the problem of gene vs. protein name disambiguation in biological text and also considering the problem of context-sensitive spelling error correction. We introduce a new family ...

7 Doctors and psychosocial information records and reuse in inpatient care [View details](#) [Email](#)

Zhenyu Zhou, Mark B. Ackerman, Kai Zheng [View details](#)
April 2010 [CHI '10: Proceedings of the 26th international conference on Human factors in computing systems](#) [View details](#)
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We conducted a field-based study at a large teaching hospital to examine doctors' use and documentation of patient care information, with a special focus on a patient's psychosocial information. We were particularly interested in the gaps between the ...

Keywords csw, ehr, electronic patient records, health informatics, medical records, organizational memory, physician information needs, psychosocial information

8 Learning and detecting emergent behavior in networks of cardiac myocytes
[Ramu Grossu, Scott A. Smolka, Farooq Sadretdin, Anita Warkentin, Emilia Polikarova, Enzo Barolucci](#)
March 2009 *Communications of the ACM*, Volume 52 Issue 3
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
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We address the problem of specifying and detecting emergent behavior in networks of cardiac myocytes, spiral electric waves in particular, a precursor to atrial and ventricular fibrillation. To solve this problem we: (1) apply discrete mode abstraction ...

9 GPGPU: general purpose computation on graphics hardware
[David Luebke, Mike Houston, Jeni Klugman, Tim Purcell, Nava Goodarzi, Ian Buck, Cliff Woolley, Aaron Lefohn](#)
August 2004 *SI3GRAPH '04: SIGGRAPH 2004 Course Notes*
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
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The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

10 WYSIWAVY: What you see is not what you execute
[Gogul Balakrishnan, Thomas Reps](#)
August 2010 *Transactions on Programming Languages and Systems (TOPLAS)*, Volume 32 Issue 8
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
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Over the last seven years, we have developed static-analysis methods to recover a good approximation to the variables and dynamically allocated memory objects of a stripped executable, and to track the flow of values through them. The article presents ...

Keywords Abstract interpretation, context-sensitive analysis, data structure recovery, interprocedural dataflow analysis, pointer analysis, reverse engineering, static analysis

11 Privacy-preserving data publishing: A survey of recent developments
[Benjamin C. M. Burrows, Ke Wang, Bill Caiyan, Philip S. Yu](#)
June 2010 *Computing Surveys (CSUR)*, Volume 42 Issue 4
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
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The collection of digital information by governments, corporations, and individuals has created tremendous opportunities for knowledge- and information-based decision making. Driven by mutual benefits, or by regulations that require certain data to be ...

Keywords Information sharing, anonymity, data mining, privacy protection, sensitive information

12 Software unit test coverage and adequacy
[Hong Zhu, Patrick A. V. Hill, John H. R. May](#)
December 1997 *Computing Surveys (CSUR)*, Volume 29 Issue 4
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
Full text available (477 42 KB) Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
Bibliometrics Downloads (6 Weeks): 79, Downloads (12 Months): 777, Downloads (Overall): 7911, Citation Count 111

Objective measurement of test quality is one of the key issues in software testing. It has been a major research focus for the last two decades. Many test criteria have been proposed and studied for this purpose. Various kinds of rationales have been ...

Keywords comparing testing effectiveness, fault detection, software unit test, test adequacy criteria, test coverage, testing methods

13 Property testing and its connection to learning and approximation
[Oded Goldreich, Shai Goldwasser, Dana Ron](#)
July 1998 *Journal of ACM (JACM)*, Volume 45 Issue 4
Publisher: ACM Additional Information [full citation](#) [abstract](#) [reference](#) [index terms](#)
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In this paper, we consider the question of determining whether a function f has property P or is ϵ -far from any function with property P . A property testing algorithm is given a sample of the value of f ...

Keywords: approximation algorithms, computational learning theory, graph algorithms

14 [Communications of the ACM: Volume 52 Issue 10](#)
 October 2009 Communications of the ACM
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15 [Communications of the ACM: Volume 53 Issue 1](#)
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17 [Reconstructing data for interactive classification](#)
 Jun Wang, Meiqin Shen, Lin
 November 2007 [CIKM '07: Proceedings of the sixteenth ACM conference on Conference on information and knowledge management](#)
 Publisher: ACM [Recent Publications](#)
 Full text available [Full \(525.93 KB\)](#) Additional Information [full citation](#), [index](#), [references](#), [order terms](#)
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The automated text categorization (TC) has made prominent progress in recent years. However, seldom work is done on automatic classification with library classification systems, the largest and most sophisticated classification systems people ever built.

Keywords: bibliographic data, dewey decimal classification, hierarchical classification, interactive classification, taxonomy reconstruction, trimming machine

18 [The Pyramid Match Kernel: Efficient Learning with Sets of Features](#)
 Krzysztof Globerson, Trevor Darrell
 May 2007 [The Journal of Machine Learning Research](#), Volume 8
 Publisher: MIT Press
 Full text available [Full \(7.86 MB\)](#) Additional Information [full citation](#), [short abstract](#), [references](#), [order terms](#)
Bibliometrics Downloads (6 Weeks): 5, Downloads (12 Months): 96, Downloads (Overall): 436, Citation Count: 17

In numerous domains it is useful to represent a single example by the set of the local features or parts that comprise it. However, this representation poses a challenge to many conventional machine learning techniques, since sets may vary in cardinality ...

19 [A framework for constructing features and models for intrusion detection systems](#)
 Wanho Lee, Saburota J. Stolfo
 November 2000 [Transactions on Information and System Security \(TIISSO\)](#), Volume 3 Issue 4
 Publisher: ACM [Recent Publications](#)
 Full text available [Full \(167.03 KB\)](#) Additional Information [full citation](#), [short abstract](#), [references](#), [cited by](#), [order terms](#), [review](#)
Bibliometrics Downloads (6 Weeks): 54, Downloads (12 Months): 494, Downloads (Overall): 4491, Citation Count: 71

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDS) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

20 [Partial constraint checking for context consistency in pervasive computing](#)
 Chao Xu, S. C. Cheung, W. K. Chan, Chevyan Yu
 January 2010 [Transactions on Software Engineering and Methodology \(TOSEM\)](#), Volume 19 Issue 3
 Publisher: ACM [Recent Publications](#)
 Full text available [Full \(1.94 MB\)](#) Additional Information [full citation](#), [references](#), [and supplements](#), [short abstract](#), [order terms](#)
Bibliometrics Downloads (6 Weeks): 32, Downloads (12 Months): 311, Downloads (Overall): 311, Citation Count: 0

Pervasive computing environments typically change frequently in terms of available resources and their properties. Applications in pervasive computing use contexts to capture these changes and adapt their behaviors accordingly. However, contexts available ...

Keywords: Constraints, performance, pervasive computing, validation

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